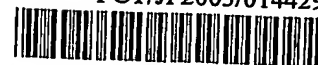


Translation

PATENT COOPERATION TREATY

PCT/JP2003/014429



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

|   |   |   |
|---|---|---|
| Applicant's or agent's file reference<br>PCT03-009  | FOR FURTHER ACTION<br>See Form PCT/IPEA/416                                 |   |
| International application No.<br>PCT/JP2003/014429  | International filing date (day/month/year)<br>13 November 2003 (13.11.2003) | Priority date (day/month/year)<br>26 December 2002 (26.12.2002) |
| International Patent Classification (IPC) or national classification and IPC<br>F04B 39/00, 27/08 |   |   |
| Applicant<br>ZEXEL VALEO CLIMATE CONTROL CORPORATION  |   |   |

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☒ (sent to the applicant and to the International Bureau) a total of 5 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report   |
| <input type="checkbox"/> Box No. II           | Priority  |
| <input type="checkbox"/> Box No. III          | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/> Box No. IV           | Lack of unity of invention  |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI           | Certain documents cited   |
| <input type="checkbox"/> Box No. VII          | Certain defects in the international application  |
| <input type="checkbox"/> Box No. VIII         | Certain observations on the international application   |

|  |   |
|--|---|
| Date of submission of the demand<br>12 April 2004 (12.04.2004) | Date of completion of this report<br>11 January 2005 (11.01.2005) |
| Name and mailing address of the IPEA/JP                        | Authorized officer  |
| Facsimile No.  | Telephone No.   |

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/014429

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages \_\_\_\_\_ 1,4-8 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ 2,2/1,3 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 06 August 2004 (06.08.2004)
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_ 2-3,6,8-9 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ 1,5,7,10 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 06 August 2004 (06.08.2004)
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages \_\_\_\_\_ 1-9(b) \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 4 \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/14429

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

|                               |        |           |     |
|-------------------------------|--------|-----------|-----|
| Novelty (N)                   | Claims | 1-3, 5-10 | YES |
|                               | Claims |           | NO  |
| Inventive step (IS)           | Claims |           | YES |
|                               | Claims | 1-3, 5-10 | NO  |
| Industrial applicability (IA) | Claims | 1-3, 5-10 | YES |
|                               | Claims |           | NO  |

## 2. Citations and explanations (Rule 70.7)

The following documents are cited in the ISR:

Document 1: JP, 10-196535, A (Toyoda Automatic Loom Works, Ltd.), 31 July, 1998 (31.07.98)

Document 2: JP, 2002-70739, A (K.K. Zexel Vareo Climate Control), 8 March 2002 (08.03.02)

Document 3: JP, 11-343974, A (Toyoda Automatic Loom Works, Ltd.), 14 December, 1999 (14.12.99)

Document 4: JP, 2002-323135, A (Nippon Gasket Co., Ltd.), 8 November, 2002 (08.11.02)

Document 5: JP, 2002-13640, A (Uchiyama Manufacturing Corp.), 18 January, 2002 (18.01.02)

The following document is newly cited:

Document 6: JP, 2000-297698, A (NOK K.K.), 24 October, 2000 (24.10.00)

The subject matters of claims 1-3 and 5-10 do not appear to involve an inventive step in view of documents 1-6. Each of documents 1 and 3 discloses a general constituent feature of a compressor and one provided with a bead in the sealed part thereof. Document 2 discloses a compressor which uses carbon dioxide as a refrigerant and has a sealed part provided with a bead. The use of a full bead and a half bead in a sealing method is widely known (for examples using a half bead, see documents 4-6, etc.) and there would be no particular difficulty in choosing a half bead for a compressor of documents 1-3. Document 6 discloses a gasket which uses a half bead and of which the outer periphery of the flat surface does not make a similar figure to the inner periphery of the raised part.